



MECHANICAL DATA SHEET: VESSEL

PLANT ITEM No. 24590-LAW-LFP-VSL-00003

Project:	RPP-WTP	P&ID:	24590-LAW-M6-LFP-P0003; 24590-LAW-M6-LFP-P0004/1\
Project No:	24590	Process Data Sheet:	-Beleted/1\ W-3/7/05
Project Site:	Hanford	Vessel Drawing	24590-LAW-MV-LFP-P0005
Description:	Meiter 2 Feed Prep	Vessel	

Reference Data

Charge Vessels (Tag Numbers)	Not Applicable
Pulsejet Mixers / Agitators (Tag Numbers)	LFP-AGT-00003
RFDs/Pumps (Tag Numbers)	LFP-PMP-00003A, LFP-PMP-00003B /1\
Spray Nozzles	LFP-NOZ-00006, LFP-NOZ-00007

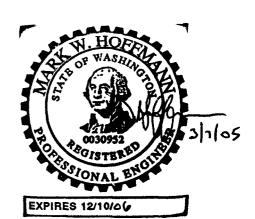
Design Data

Quality Level Seismic Category		CM (Note 4)	Fabrication Specs	24590-WTP-3P	S-MV00-TP001	
		SC-III	ASME VIII Div 1			
Service/Contents		LAW Meiter Feed	Code Stamp	Yes		
Design Specific Gravity		1.90	NB Registration	Yes		
Maximum Operating Volume	gal	7,689	Weights (lbs)	Empty	Operating	Test
Total Volume	gal	9,123	Estimated	37,000	157,100	113,300
			Actual *			

Inside Diameter	inch	132			Wind Design	Not Required		
Length/Height (TL-TL)	inch	126			Snow Design	Not	Required	
	<u> </u>	Vessel Operating	Vessel <u>Design</u>	Coil/Jacket <u>Design</u>	Seismic Design	i i	90-WTP-3PS-MV00-TP002 90-WTP-3PS-FB01-T0001	
Internal Pressure	psig	0.07	15	None	Seismic Base Moment *	ft*lb		
External Pressure	psig	4.09/1	FV	None	Postweld Heat Treat	Not	Required	
Temperature	°F	98	150	None	Corrosion Allowance	Inch	0.04 Top Head 0.125 Shell & Btm Head	
Min. Design Metal Temp.	°F	40			Hydrostatic Test Pressure *	psig		

Note: Please note that source, special nuclear and byproduct materials, as defined in the Atomic Energy Act of 1954 (AEA), are regulated at the U.S. Department of Energy (DOE) facilities exclusively by DOE acting pursuant to its AEA authority. DOE asserts, that pursuant to the AEA, it has sole and exclusive responsibility and authority to regulate source, special nuclear, and byproduct materials at DOE-owned nuclear facilities. Information contained herein on radionuclides is provided for process description purposes only.

ISSUED BY RPP-WTP PDC



This bound document contains a total of 2 sheets.

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1	Issued for Permitt ng Use	1/2/	lef	JA/S	WAR	3/7/05
0	Issued for Permitting Use	J. Jackson	SALee	C. Slater	E Jsem	12/29/03
Rev.	Reason for Revision	Ву	Checked	Review	Approved	Date

Sheet 1 of 2



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Materials of Construction

Component	<u>Material</u>	Minimum Thickness / Size	Containment
Top Head	SA-240 316 (Note 2)	See Drawing	Auxiliary
Shell	SA-240 316 (Note 2)	See Drawing	Primary
Bottom Head	SA-240 316 (Note 2)	See Drawing	Primary
Support	SA-240 304 (Note 2)	See Drawing	NIA
Jacket/Coils/Half-Pipe Jacket	NIA	NIA /1	NIA
Internals	SA-240 316 (Note 2)	See Drawing	Thermowells Primary
Pipe (Seamless)	SA-312 TP316 Seamless (Note 2)	See Drawing	Note 3
Forgings/ Bar stock	SA-182 F316 (Note 2)	See Drawing	NIA
Gaskets (O Ring)	EPDM O-Ring	NIA	NIA
Bolting	SA-193 B8M SA-194 8M	NIA	NIA

Miscellaneous Data

Orientation	Vertical	Support Type	Skirt
Insulation Function	Not Applicable	Insulation Material	Not Applicable
Insulation Thickness (inch)	Not Applicable	Internal Finish	Welds descaled as laid
		External Finish	Welds descaled as laid

Remarks

Note 1: Deleted.

- Note 2: Material shall have Carbon Content of 0.030% Max. Non-welded items are excluded from this requirement.
- Note 3: Nozzie necks below normal operating level are Primary, others Auxiliary. See 24590-WTP-3PS-MV00-TP001 for NDE.
- Note 4: Additional NDE requirements should be as per 6.4 of 24590-WTP-3PS-MV00-TP001.
- Note 5: Contents of this document are dangerous waste permit affecting. $/\sqrt{}$

^{*} To be determined by the vendor.